

Title (en)  
PROCESS AND APPARATUS FOR PRODUCING DISTILLATE FUELS AND ANODE GRADE COKE FROM VACUUM RESID

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON DESTILLATBRENNSTOFFEN UND FÜR ANODEN VERWENDBAREM KOKS  
AUS EINEM VAKUUMRESTSTOFF

Title (fr)  
PROCÉDÉ ET APPAREIL DE PRODUCTION DE CARBURANTS DISTILLÉS ET DE COKE DE QUALITÉ ANODE À PARTIR D'UN RÉSIDU SOUS  
VIDE

Publication  
**EP 2970787 B1 20181114 (EN)**

Application  
**EP 14775243 A 20140221**

Priority  
• US 201361784462 P 20130314  
• US 2014017742 W 20140221

Abstract (en)  
[origin: US2014275676A1] A process for upgrading residuum hydrocarbon feedstocks that may include: contacting a residuum hydrocarbon and hydrogen with a hydroconversion catalyst in a residuum hydroconversion reactor system; recovering an effluent from the residuum hydroconversion reactor system; separating the effluent to recover two or more hydrocarbon fractions including at least a vacuum residuum fraction and a heavy vacuum gas oil fraction; combining at least a portion of the heavy vacuum gas oil fraction and at least a portion of the vacuum residuum fraction to form a mixed heavy hydrocarbon fraction; feeding at least a portion of the mixed heavy hydrocarbon fraction to a coker; operating the coker at conditions to produce anode grade green coke and distillate hydrocarbons; recovering the distillate hydrocarbons from the coker; fractionating the distillate hydrocarbons to recover hydrocarbon fractions including a light distillates fraction, a heavy coker gas oil fraction, and a coker recycle fraction.

IPC 8 full level  
**C10G 69/00** (2006.01)

CPC (source: EP RU US)  
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US 2010122931 A1 20100520 - ZIMMERMAN PAUL R [US], et al

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CN 105164233 A 20151216; CN 105164233 B 20170704; EP 2970787 A1 20160120; EP 2970787 A4 20170104; EP 2970787 B1 20181114;  
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KR 20150139538 A 20151211; MX 2015012422 A 20160425; MY 172502 A 20191127; PL 2970787 T3 20190531; PT 2970787 T 20190221;  
RS 58353 B1 20190329; RU 2015143429 A 20170428; RU 2628067 C2 20170814; SG 11201507544Q A 20151029; TR 201902143 T4 20190321;  
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MX 2015012422 A 20140221; MY PI2015002389 A 20140221; PL 14775243 T 20140221; PT 14775243 T 20140221; RS P20190208 A 20140221;  
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